

**Amendments to the Claims:**

Claims 1-20 (Cancelled).

21. (New) A method for use with a time domain reflectometer (TDR) of displaying abnormalities of a non-optical wire communication line, comprising the steps of:

transmitting from a TDR at least one pulse into a wire communication line;

receiving a reflected trace from the wire communication line;

exponentially adjusting the reflected trace so as to reduce an exponential gain decay of the reflected trace; and displaying the adjusted trace.

22. (New) The method according to claim 21, wherein the step of exponentially adjusting the reflected trace includes amplifying the reflected trace according to an exponential decay as a function of time to reduce an exponential gain decay of a no-fault wire communication line.

23. (New) The method according to claim 21, after the step of exponentially adjusting the reflected trace, further comprising:

offsetting a direct current portion from the adjusted trace; and

exponentially adjusting the offset trace for a second time so as to amplify the abnormalities present in the offset trace.

24. (New) The method according to claim 21, prior to the step of exponentially adjusting, further comprising

removing abrupt transitions to produce a smooth reflected trace.

25. (New) The method according to claim 21, after the step of exponentially adjusting the reflected trace, further comprising offsetting a direct current portion from the adjusted trace.

26. (New) A system for displaying abnormalities of a non-optical wire communication line, the system comprising:

a pulse generator operable to generate at least one pulse for transmission on a wire communication line;

a receiver operable to receive a reflected trace from the wire communication line;

a processor operable to exponentially adjust the reflected trace so as to reduce an exponential gain decay of the reflected trace; and

a display operable to display the adjusted trace.

27. (New) The system according to claim 26, wherein the processor exponentially adjusts the reflected trace by amplifying the reflected trace according to an exponential decay as a function of time to reduce an exponential gain decay of a no-fault wire communication line.

28. (New) The system according to claim 27, further comprising an exponential voltage generator operable to generate the exponential decay as a function of time.

29. (New) The system according to claim 26, wherein the processor is further operable to:

offset a direct current portion from the adjusted trace; and

exponentially adjust the offset trace for a second

time so as to amplify the abnormalities present in the offset trace.

30. (New) The system according to claim 26, wherein the process is further operable to remove abrupt transitions to produce a smooth reflected trace prior to exponentially adjusting the reflected trace.

31. (New) The system according to claim 26, wherein the processor offsets a direct current portion from the adjusted trace after the reflected trace is exponentially adjusted.